

AMENDMENTS TO THE ABSTRACT:

Please replace the abstract on page 17 with the following amended paragraph:

The described embodiments of the present invention include a method for forming a radiation detector, ~~including the steps of: forming a~~ A radiation absorption layer is formed on a substrate, ~~forming a~~ A wider bandgap layer is formed on the radiation absorption layer, ~~forming a~~ A passivation layer is formed on the wider bandgap layer, ~~forming a~~ A doping layer is formed on the passivation layer, ~~patterning the~~ The doping layer is then patterned and, ~~driving dopant is driven~~ from the patterned doping layer into the junction layer and the radiation absorption layer to form a doped region, ~~patterning the~~ The passivation layer is patterned to expose the doped region, ~~and forming and~~ an electrical contact to the doped region is formed.

~~Another described embodiment of the present invention is a radiation detector. This embodiment includes a radiation absorption layer formed on a substrate and a wider bandgap layer formed on the radiation absorption layer. This embodiment further includes a passivation layer formed on the junction layer; a patterned doping layer formed on the passivation layer and a doped region formed by driving dopant from the patterned doping layer into the junction layer and the radiation absorption layer and an electrical contact formed through a via in the passivation layer to provide electrical contact with the doped region.~~